

Title (en)  
A TORSIONAL VIBRATION DAMPER

Title (de)  
ROTATIONSSCHWINGUNGSDÄMPFER

Title (fr)  
AMORTISSEUR DE VIBRATIONS TORSIONNELLES

Publication  
**EP 0746702 A1 19961211 (EN)**

Application  
**EP 95909042 A 19950223**

Priority  
• GB 9500381 W 19950223  
• GB 9403643 A 19940225

Abstract (en)  
[origin: US5761969A] PCT No. PCT/GB95/00381 Sec. 371 Date Jan. 21, 1997 Sec. 102(e) Date Jan. 21, 1997 PCT Filed Feb. 23, 1995 PCT Pub. No. WO95/23300 PCT Pub. Date Aug. 31, 1995A torsional vibration damper has an annular driven member and an annular inertia member, coaxial with the driven member. The inertia member is capable of limited rotational movement relative to the driven member. At least one set of variable volume chambers is arranged so that the relative movement of the driven and inertia members in a first direction decreases the volume of one of the chambers and increases the volume of the other chamber, and relative movement in the opposite direction causes a reverse variation in the volume of the chambers. At least one annular spring is carried by one of the driven and inertia members. A connection is provided between the variable volume chambers and at least one side of the spring. The damper is supplied with a source of fluid in the chambers whereby relative rotational movement of the drive and inertia members pressurizes the one side of the spring causing it to flex. At least one of the chambers is provided with inlet and outlet valves so as to enable it to pump fluid from the source of fluid to the pressurized side of the spring.

IPC 1-7  
**F16F 15/16**

IPC 8 full level  
**F16F 15/16** (2006.01); **F16F 15/173** (2006.01)

CPC (source: EP US)  
**F16F 15/161** (2013.01 - EP US); **F16F 15/162** (2013.01 - EP US); **F16F 15/173** (2013.01 - EP US); **Y10T 74/2125** (2015.01 - EP US)

Citation (search report)  
See references of WO 9523300A1

Cited by  
CN111295534A

Designated contracting state (EPC)  
AT CH DE DK FR GB LI

DOCDB simple family (publication)  
**US 5761969 A 19980609**; AT E168747 T1 19980815; AU 1714495 A 19950911; DE 69503609 D1 19980827; DE 69503609 T2 19990415; DK 0746702 T3 19990426; EP 0746702 A1 19961211; EP 0746702 B1 19980722; GB 9403643 D0 19940413; JP H09509467 A 19970922; KR 100349112 B1 20030929; WO 9523300 A1 19950831

DOCDB simple family (application)  
**US 70262197 A 19970121**; AT 95909042 T 19950223; AU 1714495 A 19950223; DE 69503609 T 19950223; DK 95909042 T 19950223; EP 95909042 A 19950223; GB 9403643 A 19940225; GB 9500381 W 19950223; JP 52220195 A 19950223; KR 19960704639 A 19960823